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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/768,217	01/24/2001	Bengt Gustav Lofmark	2739-4	2309

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EXAMINER

HAROLD, JEFFEREY F

ART UNIT	PAPER NUMBER
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2614

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

09/768,217

Applicant(s)

LOFMARK, BENGT GUSTAV

Examiner

Jefferey F. Harold

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,3-5,7-11,13-28,30-32 and 34-39 is/are rejected.
- 7) ☒ Claim(s) 6,12,29 and 33 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
- Paper No(s)/Mail Date ____.

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. ***Claims 1, 3-5, 7-11 and 13-28, 30-32, and 34-39*** are rejected under 35 U.S.C. 102(e) as being anticipated by Bella (United States Patent 6,137,880).

Regarding **claim 1**, Bella discloses a passive splitter filter for DSL voice communication for complex impedance terminations. In addition, Bella discloses a filter for filtering signals in a telecommunications system and for impedance matching to a predetermined complex impedance, wherein the filter has at least one first pass band, the filter is passive, the characteristic impedance of the filter is complex so that it matches the predetermined complex impedance at least approximately, and wherein a resistance of at least one of the filter components is chosen such that the resistance assists in giving the characteristic impedance of the filter its complex character, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 3**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the resistance is in series with at least one inductance, said resistance and said inductance assisting in giving the filter said

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complex characteristic impedance, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 4**, Bella discloses everything claimed as applied above (see claim 3), in addition Bella discloses wherein the filter includes at least one parallel combination of a first inductance in series with a first resistance and a second inductance in series with a second resistance, wherein the first inductance is large in relation to the second inductance, and wherein the first resistance is small in relation to the second resistance, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 5**, Bella discloses everything claimed as applied above (see claim 4), in addition Bella discloses wherein the filter includes at least two circuit of which at least one circuit segment includes said parallel combination, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 7**, Bella discloses everything claimed as applied above (see claim 3), in addition Bella discloses wherein the filter includes at least one series combination of a first inductance in series with a first resistance and a second inductance in parallel with a second resistance, wherein the first inductance is small in relation to the second inductance, and wherein the first resistance is small in relation to the second resistance, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 8**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the filter includes at least two cascade-

coupled circuit segments of which at least one circuit segment includes at least the resistance that assists in giving the characteristic impedance of the filter said complex character, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 9**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the resistance that assists in giving the characteristic impedance of the filter the complex character is comprised of at least one resistor, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 10**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the resistance that assists in giving the characteristic impedance of the filter the complex character is comprised of at least one winding resistance of an inductor, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 11**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the predetermined complex impedance is the characteristic impedance of a transmission line, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 13**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the filter includes at least one cable simulator section, which cable simulator section has a characteristic impedance that matches the predetermined complex impedance at least approximately; wherein the

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filter also includes at least one capacitor, wherein said capacitor assists in giving the filter at least one attenuation peak in a predetermined frequency range in coaction with said cable simulator section, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 14**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the filter includes at least one cable simulator section, which cable simulator section has a characteristic impedance that matches the predetermined complex impedance at least approximately; and in that the filter includes at least one coupled coil, which coupled coil includes an inductance in the cable simulator section and assists in giving the filter at least one attenuation peak in a predetermined frequency range, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 15**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the filter is a low-pass filter, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 16**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses wherein the filter includes a further pass band in a predetermined frequency range, said further pass band differing from said at least first pass band, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 17**, Bella discloses everything claimed as applied above (see claim 1), in addition Bella discloses a splitter filter which includes at least one filter

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according to Claim 1, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claim 18**, Bella discloses everything claimed as applied above (see claim 17), in addition Bella discloses wherein said filter according to Claim 1 is a low-pass filter; and wherein the low-pass filter is connected in series to a high-pass filter, as disclosed at column 8, line 52 through column 12, line 46 and exhibited in figures 6-8.

Regarding **claims 19-28, 30-32, and 34-39**, Bella discloses everything claimed as applied above, in addition claims 19-28, 30-32, and 34-39 are interpreted and thus rejected for the reasons set forth above in the rejection of claims 1, 3-5, 7-11 and 13-18.

Allowable Subject Matter

2. **Claims 6, 12, 29 and 33** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

3. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Citation of Pertinent Art

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Eckert et al. (United States Patent 6,459,790) discloses a system and method for selective filter isolation

Conclusion

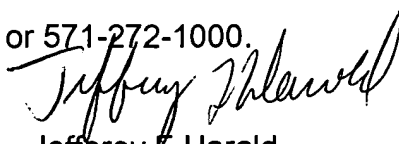
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F. Harold whose telephone number is 571-272-7519. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on 571-272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



JFH
January 27, 2007



Jefferey F. Harold
Primary Examiner
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